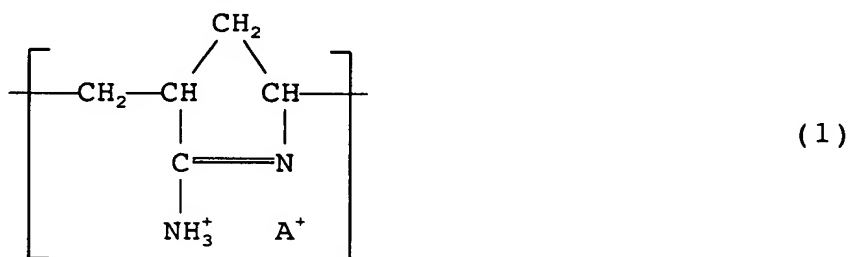


CLAIMS

1. An aqueous dispersion of inorganic pigment-cationic resin composite fine particles, comprising an aqueous medium and solid particles dispersed in the aqueous medium,

wherein

the solid particles comprising inorganic pigment-cationic resin composite fine particles which are particles of agglomerates of a cationic resin comprising cationic polymerization units having a five-membered cyclic amidine structure of the formula (1):



in which formula (1), A⁺ represent an anion,

with inorganic pigment particles having an average primary particle size of 3 to 40 nm, and the agglomerate particles having an average secondary particle size controlled within the range of from 10 nm to 1.0 μm.

2. The aqueous dispersion of inorganic pigment-cationic resin composite fine particles as claimed in claim 1, wherein the cationic resin comprises 20 to 90 molar% of the cationic polymerization units having a five-membered cyclic amidine structure of the formula (1) and 10 to 80 molar% of a polymerization units of the general formula (2):



in which formula (2), X represents a

member selected from the group consisting of a cyano group, amine hydrochloride groups and a formamide group.

5 3. The aqueous dispersion of inorganic pigment-cationic resin composite fine particles as claimed in claim 1 or 2, wherein the cationic polymerization units of the formula (1) and the polymerization units of the formula (2) are present in a molar ratio in the range of from 10:1 to 1:3.

10 4. The aqueous dispersion of inorganic pigment-cationic resin composite fine particles as claimed in any one of claims 1 to 3, wherein the cationic resin has a weight average molecular weight of 10,000 or more.

15 5. The aqueous dispersion of inorganic pigment-cationic resin composite fine particles as claimed in any one of claims 1 to 4, wherein, in the inorganic pigment-cationic resin composite fine particles, the inorganic pigment and the cationic resin are present in a mass ratio in the range of from 100:1 to 100:30.

20 6. The aqueous dispersion of inorganic pigment-cationic resin composite fine particles as claimed in any one of claims 1 to 5, wherein the average secondary particle size of the inorganic pigment-cationic resin composite fine particles is in the range of from 10 nm to 0.5 μm .

25 7. The aqueous dispersion of inorganic pigment-cationic resin composite fine particles as claimed in any one of claims 1 to 6, wherein the inorganic pigment comprises a silica pigment.

30 8. The aqueous dispersion of inorganic pigment-cationic resin composite fine particles as claimed in claim 7, wherein the silica pigment comprises fumed silica particles having a specific surface area of 180 to 380 m^2/g .

35 9. An ink jet recording sheet comprising a substrate sheet and at least one ink receiving layer formed from a coating liquid containing the aqueous dispersion of inorganic pigment-cationic resin composite

fine particles as claimed in any one of claims 1 to 8,
and a binder, on least one surface of the substrate
sheet.